AXELERON™ CS K-3364 NT CPD

High Density Polyethylene Solid Insulation Compound

The Dow Chemical Company

Message:

AXELERON™ CS K-3364 NT CPD is a high-molecular weight, high-density polyethylene insulation compound ("CPD") specifically formulated to provide excellent oxidative stability, toughness, and abrasion resistance. It provides superior long term aging performance, while providing excellent environmental and thermal stress-cracking resistance. In addition, AXELERON™ CS K-3364 NT CPD provides excellent processability for high-speed wire insulating extrusion processes. AXELERON™ CS K-3364 NT CPD provides good performance for telephone insulation applications, primarily cable designs for aerial environments. AXELERON™ CS K-3364 NT CPD is optimized to meet major international age testing standards and specifications for both solid and foam/skin insulation use. Specifications AXELERON™ CS K-3364 NT CPD meets the following raw material specifications: ASTM D 1248 Type III Category A-4, Grade E8 and E9 Federal LP-390 C, II-H, Grades 1 and 2, Category 4 ISO 1872-PE, KHKN,45-D006 Telephone wire insulated with AXELERON™ CS K-3364 NT CPD, using sound commercial extrusion practices, should meet the following cable specifications: ICEA S-84-608 EN-50290-2-23 IEC 60708 DIN VDE 0819-103 BS 6234 type H03 NF C 32-060

General Information				
Uses	Thin wall insulation			
	Telephone insulator			
	Wire and cable applicatio	ns		
	Solid insulation			
	Communication wire insulation material			
Agency Ratings	ASTM D 1248, III, Class A, Cat. 4, Grade E8			
	ASTM D 1248, III, Class A, Cat. 4, Grade E9			
	BS 6234 Type H03			
	EN 50290-2-23			
	FED L-P-390C, Type II, Class H, Category 4, Grade 1			
	ICEA S-84-608			
	IEC 60708			
	NF C 32-060			
Forms	Particle			
Physical	Nominal Value	Unit	Test Method	

Physical	Nominal Value	Unit	Test Method	
Density	0.947	g/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR) (190°C/2.16				
kg)	0.75	g/10 min	ASTM D1238	

Environmental Stress-Cracking Resistance (100°C, 100% Igepal, F0)	> 48.0	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	23.4	MPa	ASTM D638
Tensile Elongation (Break)	500	%	ASTM D638
Aging	Nominal Value	Unit	Test Method
Tensile strength retention-48 hrs (100°C)	90	%	ASTM D638
Elongation retention rate-48 hrs (100°C)	90	%	ASTM D638
Heat resistant stress crack-F0	> 96	hr	ASTM D2951
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ¹	-76.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	> 1.0E+15	ohms•cm	ASTM D257
Dielectric Constant ² (1 MHz)	2.32		ASTM D1531
Dissipation Factor (1 MHz)	6.0E-5		ASTM D1531
Extrusion	Nominal Value	Unit	
Melt Temperature	218 - 260	°C	
Extrusion instructions			

Extrusion instructions

AXELERON^m CS K-3364 NT CPD provides excellent surface finish and good output rates over a broad range of extrusion conditions. AXELERON^m CS K-3364 NT CPD is typically extruded at melt discharge temperatures ranging from 218-260°C (425-500°F) using conductor preheats ranging from 110-140°C (230-290°F). Specific extrusion conditions can be recommended only when the application, processing speed and processing equipment details are known.

NOTE	
1.	F0
2.	After 14 days Water Immersion at 23°C (73°F)

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